IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the present application:

1-20. (Canceled)

21.   (Currently amended) A device to log information in a network cache, the device comprising:

a user an interface to allow a user to select selection of a protocol, to select for logging selection of some or all of a plurality of fields of the protocol that may be present in messages to be received for logging, and to specify specification of a sequence in which the selected fields are to appear relative to each other in a log file;

a first data structure for storing a value indicating a position in the user specified sequence for each selected field;

a protocol independent log module to receive information from an application module, to store the information in a second data structure, and to store a reference to the information for each selected field stored in the second data structure in a location of a third data structure that corresponds to the position in the user-specified specified sequence for the corresponding field; and

a log file wherein the information for each selected field from the second data structure is sequentially written using the reference from the third data structure.

22.   (Previously presented) The device of claim 21, wherein the application module is protocol specific and obtains information for each selected field associated with the message.

23.   (Currently amended) The device of claim 21, wherein the ~~user~~ interface allows ~~the user to create~~ the creation of new fields in addition to the plurality of fields.

24.   (Currently amended) The device of claim 21, wherein each location in the first data structure is pre-initialized to contain a flag before the ~~user-specified~~ specified sequence is stored, the flag being utilized as an indicator that ~~the user did not select that~~ the corresponding field was not selected for logging.

25.   (Currently amended) The device of claim 21, wherein the ~~user~~ interface is a graphical user interface.

26.   (Currently amended) The device of claim 21, wherein the ~~user~~ interface is a command line interface.

27.   (Currently amended) A method of logging information in a network cache, the method comprising:

       providing ~~a user~~ an interface to allow ~~a user to select~~ selection of ~~for logging~~ some or all of a plurality of fields that may be present in a message to be received for logging and ~~to specify~~ specification of a sequence in which the selected fields are to appear ~~relative to each other~~ in a log file;

       storing in a first data structure a value indicating the position in the ~~user-specified~~ specified sequence of each selected field;

       in response to a message received over a network from a remote node,

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obtaining information for each selected field associated with the message and storing the information in a second data structure, in a sequence independent of the ~~user-specified~~ specified sequence,

storing in a third data structure, based on the first data structure, a reference to the information for each selected field stored in the second data structure, including storing each reference in a location of the third data structure that corresponds to the position in the ~~user-specified~~ specified sequence of the corresponding field; and

using the third data structure to output the information for each selected field in the second data structure to a log file, such that the information for each selected field appears in the log file according to the ~~user-specified~~ specified sequence.

28.   (Currently amended) The method of claim 27, wherein the ~~user~~ interface allows ~~the user to create~~ creation of new fields in addition to the plurality of fields.

29.   (Previously presented) The method of claim 27, wherein the information for each field is converted to an ASCII representation and is of variable length.

30.   (Currently amended) The method of claim 27, wherein each location in the first data structure is pre-initialized to contain a flag before the ~~user-specified~~ specified sequence is stored, the flag to be utilized as an indicator that ~~the user did not select that~~ the corresponding field was not selected for logging.

31.   (Previously presented) The method of claim 27, wherein the second data

structure and the third data structure are created to respond to logging for the message

and destroyed once logging for the message is completed.

32.   (Previously presented) The method of claim 27, wherein the first data structure

persists through logging for a plurality of messages received from remote nodes.

33.   (Previously presented) The method of claim 27, wherein using the third data

structure to output the information further comprises sequentially accessing the third

data structure to read the position of the information corresponding to each selected

field and accessing the second data structure to read information corresponding to each

selected field at the position indicated by the reference.

34.   (Currently amended) A device for logging information in a network cache, the

device comprising:

    a user an interface to allow a user to select selection of a protocol, to select

selection of for logging some or all of a plurality of fields of a message to be received for

logging, the fields corresponding to the selected protocol, and to specify specification of

a sequence in which the selected fields are to appear relative to each other in a log file;

    a protocol specific application module to obtain information for each selected field

associated with the message;

    a protocol independent log module to receive information for each selected field

from the protocol specific application module and to store the information for each

selected field in a log file in the sequence specified by the user.

35.   (Canceled)

36.   (Currently amended) The device of claim ~~35~~ <u>36</u>, wherein the ~~user~~ interface allows ~~the user to create~~ <u>creation of</u> new fields in addition to the plurality of fields.

37.   (Canceled)

38.   (Currently amended) The device of claim ~~35~~ <u>36</u>, wherein the ~~user~~ interface is a graphical user interface.

39.   (Currently amended) The device of claim ~~35~~ <u>36</u>, wherein the ~~user~~ interface is a command line interface.

40-45. (Canceled)